

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/000893 A3

(51) International Patent Classification⁷: **C07K 14/655**,
A61K 38/31, C07K 7/06

(74) Agent: **GRUBB, Philip**; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(21) International Application Number:
PCT/EP2004/006794

(22) International Filing Date: 23 June 2004 (23.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0314695.8 24 June 2003 (24.06.2003) GB
0325388.7 30 October 2003 (30.10.2003) GB

(71) Applicant (for all designated States except AT, US): **NOVARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

(71) Applicant (for AT only): **NOVARTIS PHARMA GMBH** [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LAMBERT, Oliver** [FR/FR]; 13, rue des Vergers, 68720 Spechbach-le-Haut (FR). **MOSER, Katrin** [CH/US]; 229 Saint Paul Street N°3, Brookline, MA 02446 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
7 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PHARMACEUTICAL COMPOSITION COMPRISING CYCLIC SOMATOSTATIN ANALOGUES**

(57) Abstract: The present invention describes parenteral pharmaceutical compositions comprising a somatostatin analogue and novel somatostatin analogues.

WO 2005/000893 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006794

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/655 A61K38/31 C07K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/10192 A (NOVARTIS ERFIND VERWALT GMBH ; ALBERT RAINER (CH); LEWIS IAN (CH); NOV) 7 February 2002 (2002-02-07) claims 7,8; example 2b page 1, line 1 - line 7 page 11, line 6 - page 16, line 11 page 1, line 4 - line 6; claims 1-4	1-10
X	WO 97/01579 A (SANDOZ AG ; ALBERT RAINER (CH); LEWIS IAN (CH); BAUER WILFRIED (CH); S) 16 January 1997 (1997-01-16) cited in the application page 1, line 1 - page 5, line 28 example 2; table 1 page 19, line 4 - line 10	1,3,9

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

6 December 2004

Date of mailing of the international search report

16/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Döpfer, K-P

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/006794

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 612 366 A (NUTT RUTH F) 16 September 1986 (1986-09-16) example 9	1-10
A	----- REUBI J C ET AL: "A new peptidic somatostatin agonist with high affinity to all five somatostatin receptors" EUROPEAN JOURNAL OF PHARMACOLOGY, AMSTERDAM, NL, vol. 456, 2002, pages 45-49, XP002276363 ISSN: 0014-2999 the whole document -----	1-10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/006794

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 9 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/006794

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0210192	A	07-02-2002	
		AU 8977801 A	13-02-2002
		BR 0112859 A	01-07-2003
		CA 2416293 A1	07-02-2002
		CN 1446229 T	01-10-2003
		CZ 20030288 A3	14-05-2003
		WO 0210192 A2	07-02-2002
		EP 1307486 A2	07-05-2003
		HU 0300684 A2	29-09-2003
		JP 2004505095 T	19-02-2004
		NO 20030484 A	19-03-2003
		NZ 523836 A	27-08-2004
		PL 358718 A1	09-08-2004
		SK 1212003 A3	05-08-2003
		ZA 200300406 A	02-04-2004
WO 9701579	A	16-01-1997	
		AT 210152 T	15-12-2001
		AU 714447 B2	06-01-2000
		AU 6515096 A	30-01-1997
		BR 9609335 A	25-05-1999
		CA 2222524 A1	16-01-1997
		CZ 9704196 A3	13-05-1998
		DE 69617687 D1	17-01-2002
		DE 69617687 T2	22-08-2002
		DK 835263 T3	02-04-2002
		WO 9701579 A2	16-01-1997
		EP 0835263 A2	15-04-1998
		ES 2169251 T3	01-07-2002
		HU 9901455 A2	28-09-1999
		JP 3445796 B2	08-09-2003
		JP 11506108 T	02-06-1999
		JP 2003104998 A	09-04-2003
		NO 976064 A	16-02-1998
		NZ 313147 A	29-11-1999
		PL 323943 A1	27-04-1998
		PT 835263 T	29-04-2002
		RU 2160741 C2	20-12-2000
		SI 835263 T1	30-06-2002
		SK 177097 A3	05-08-1998
		TR 9701718 T1	21-05-1998
		TW 491854 B	21-06-2002
		US 6225284 B1	01-05-2001
		ZA 9605538 A	29-12-1997
US 4612366	A	16-09-1986	
		CA 1268899 A1	08-05-1990
		DE 3686099 D1	27-08-1992
		DE 3686099 T2	21-01-1993
		EP 0206118 A2	30-12-1986
		JP 61291599 A	22-12-1986